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FIG. 1

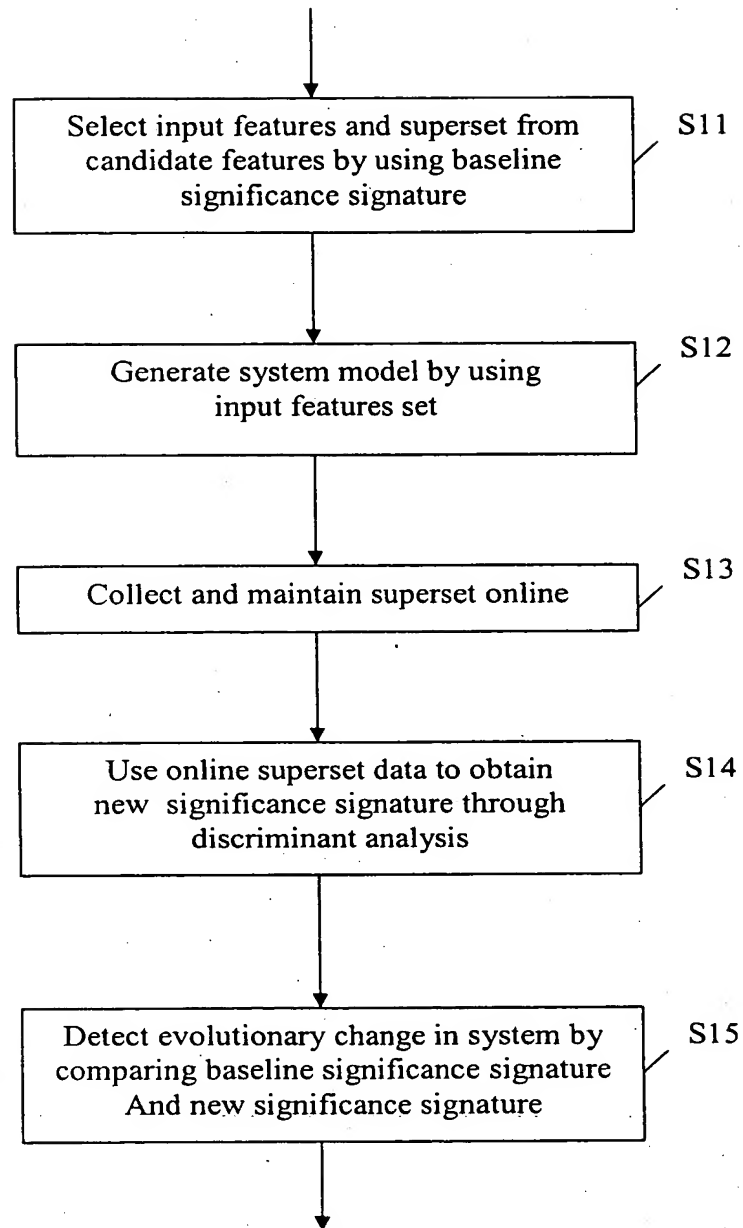


FIG. 2

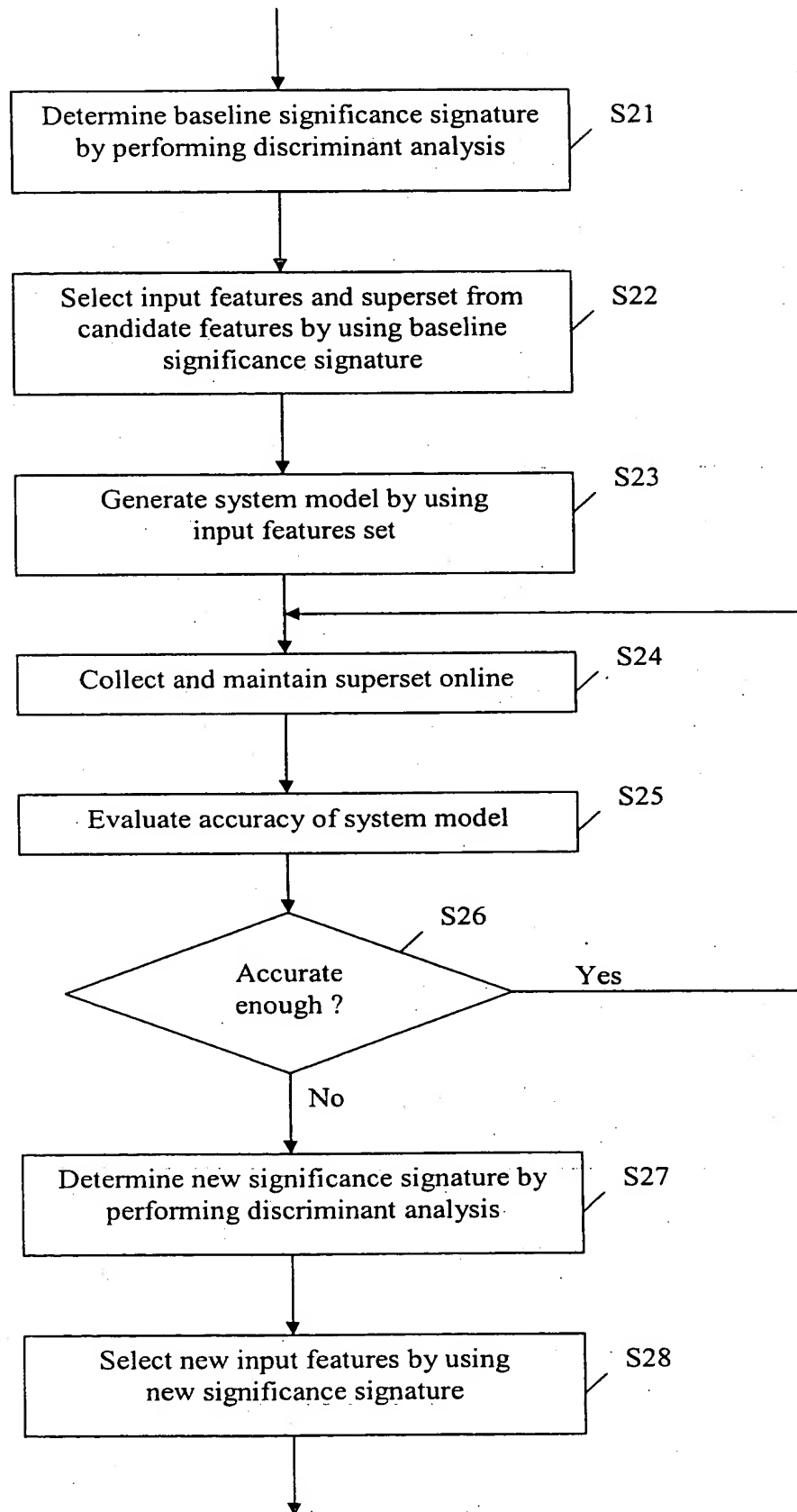
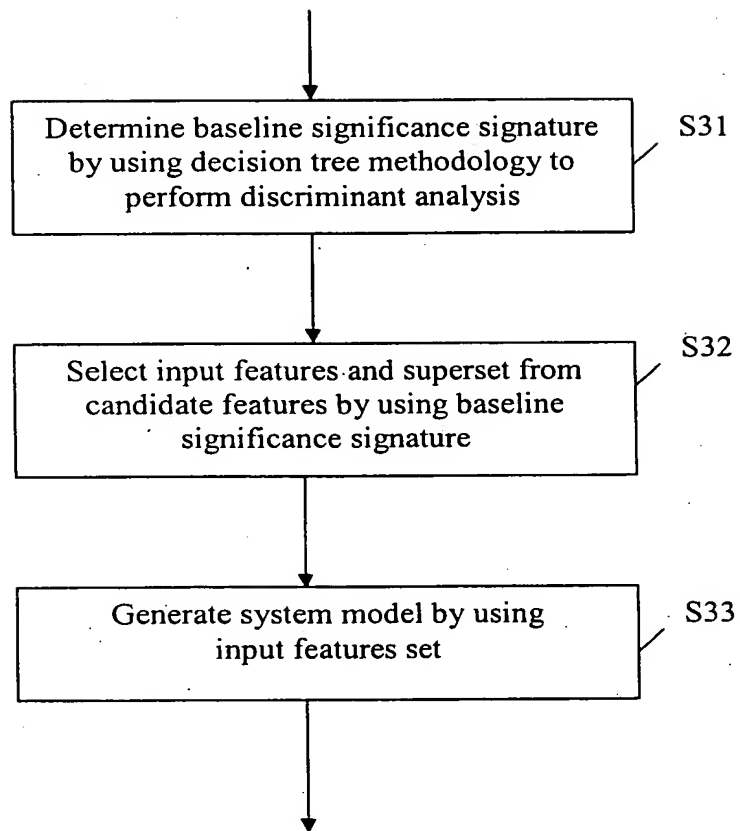


FIG. 3



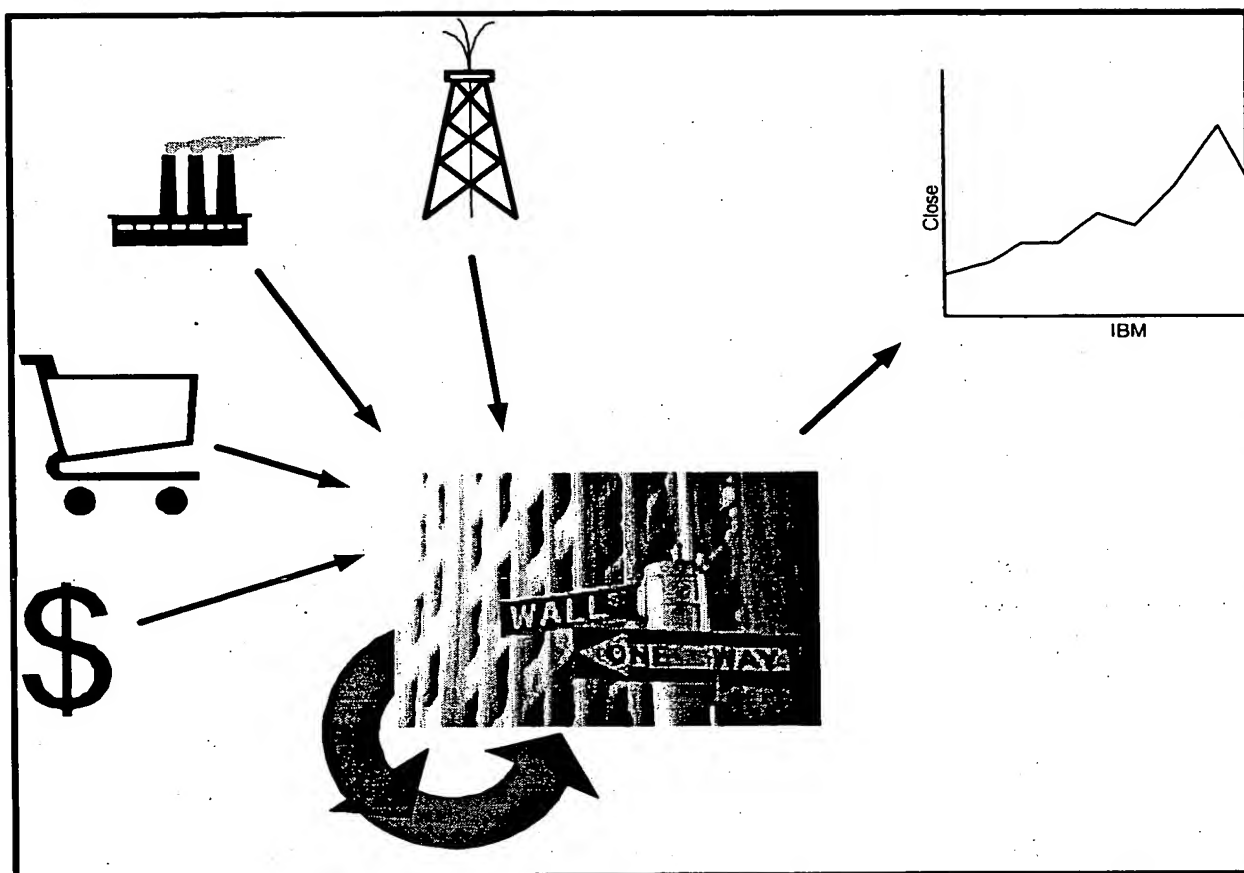


FIG. 4

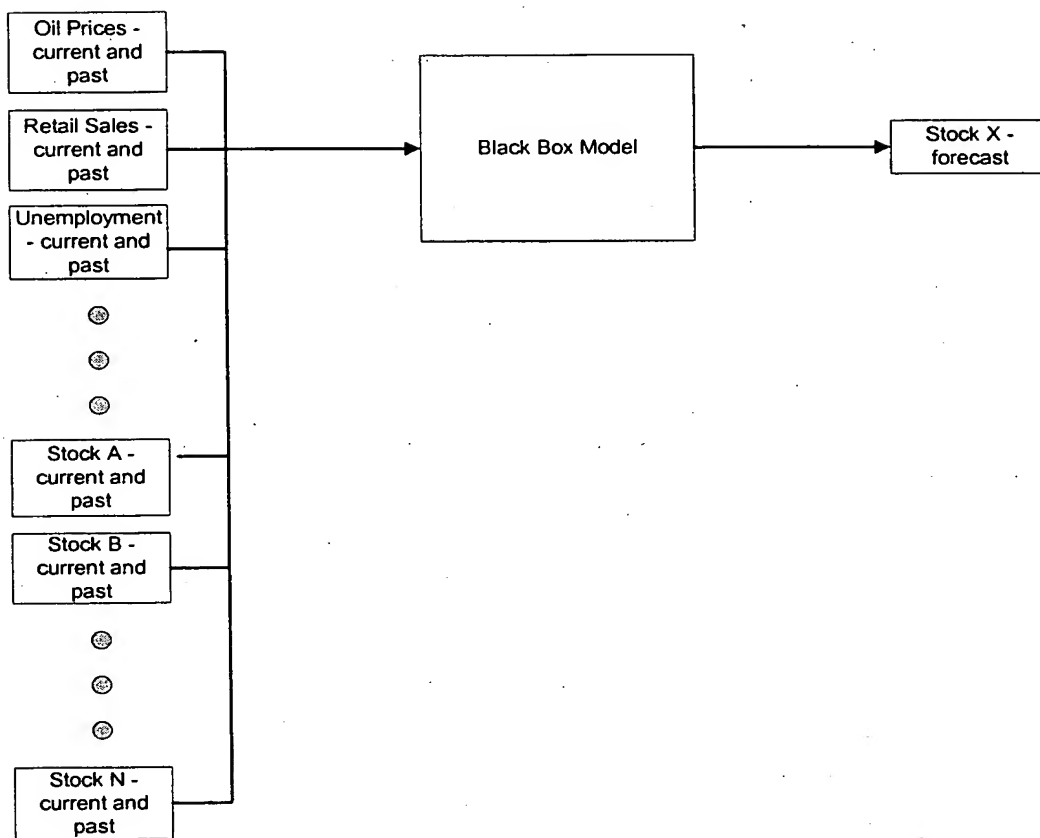


FIG. 5

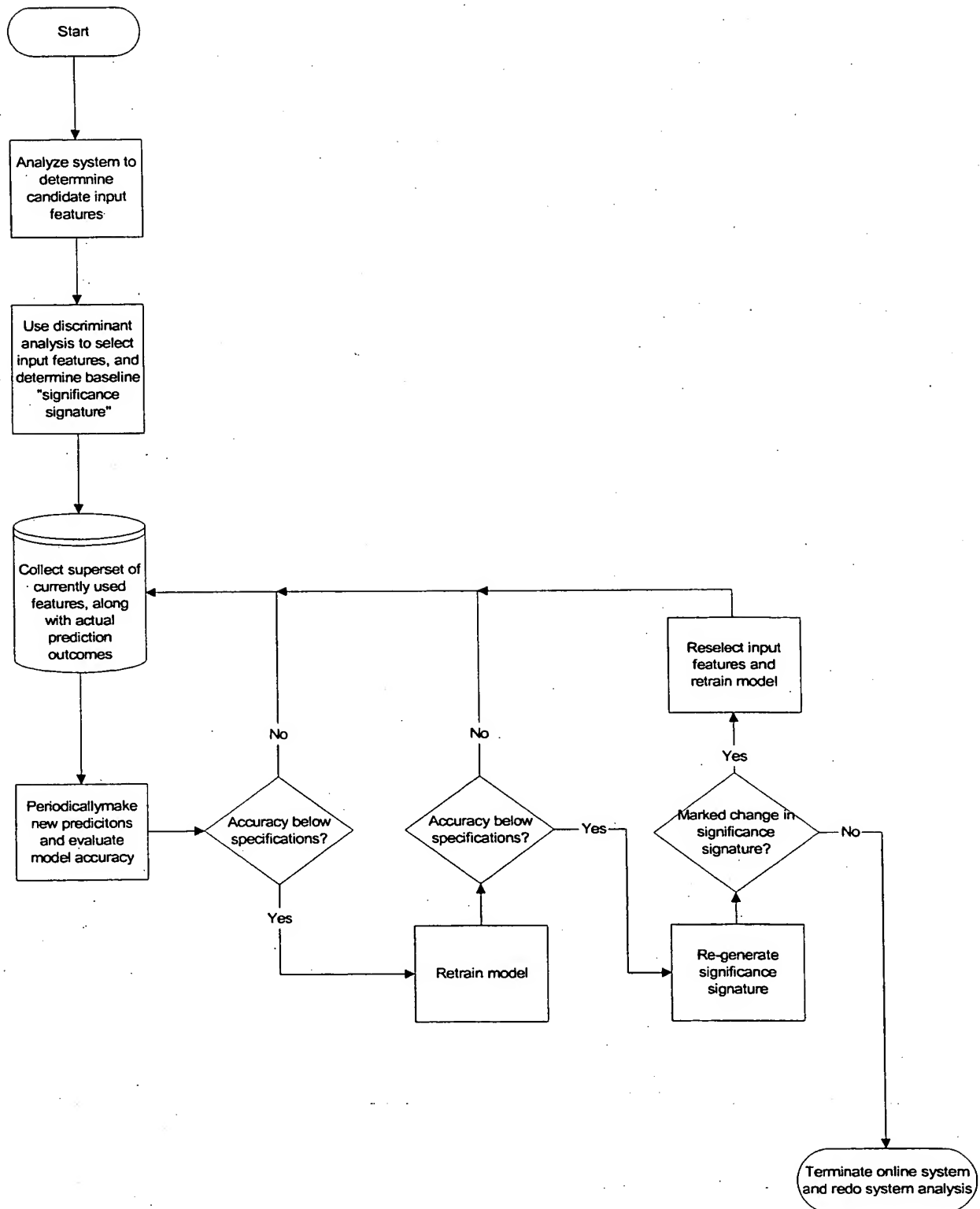


FIG. 6

FIG. 7

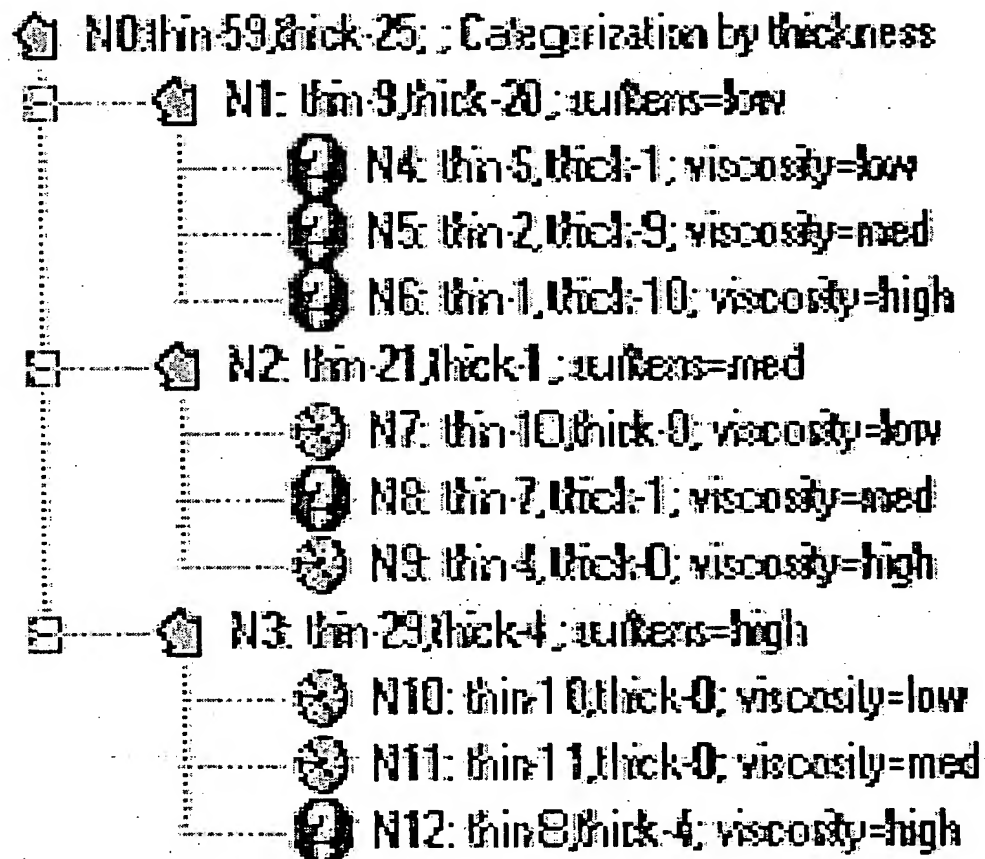


FIG. 8

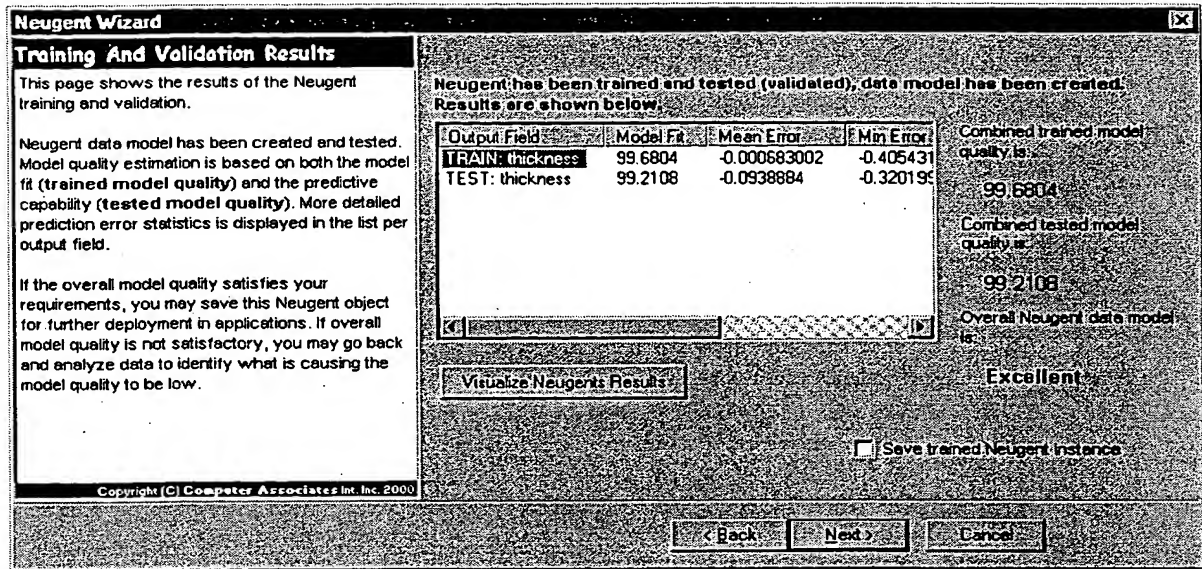


FIG. 9

Entropy reduction

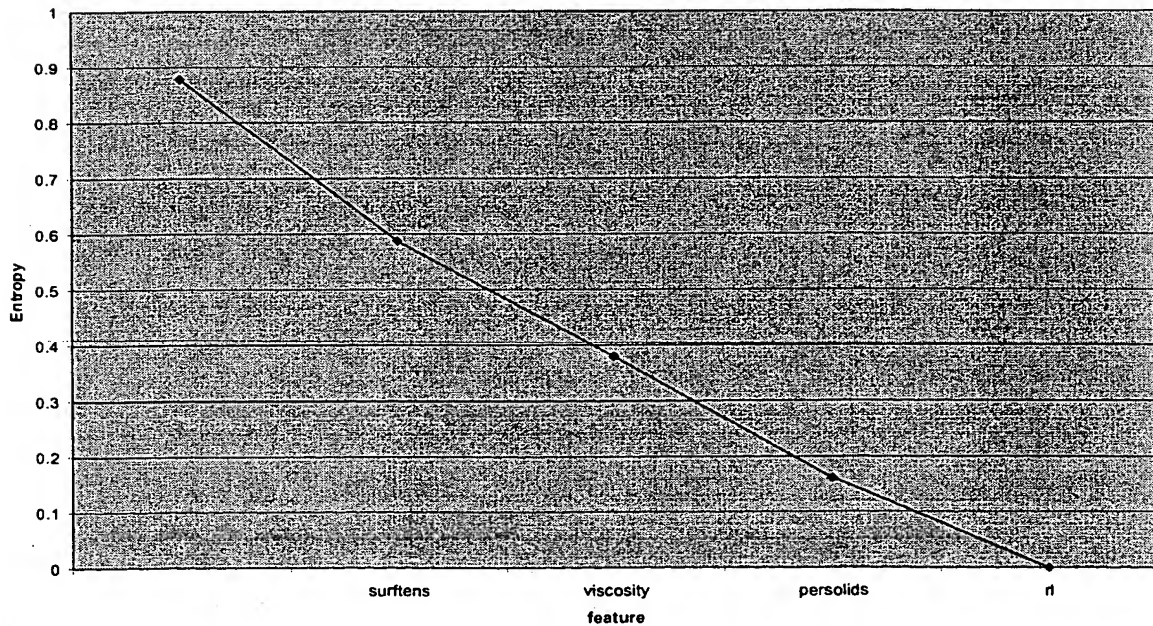


FIG. 10

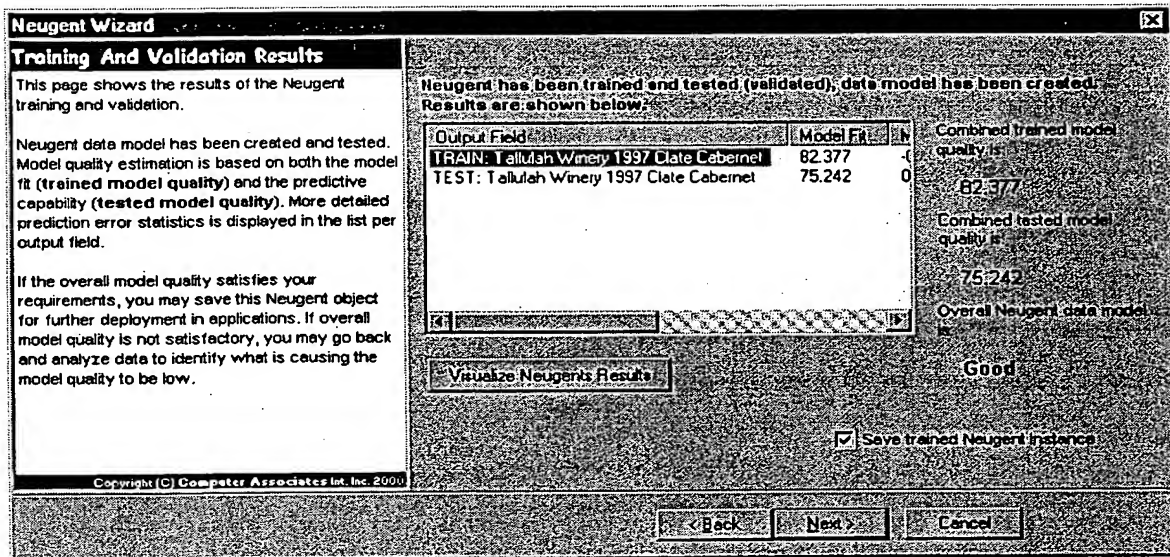


FIG. 11

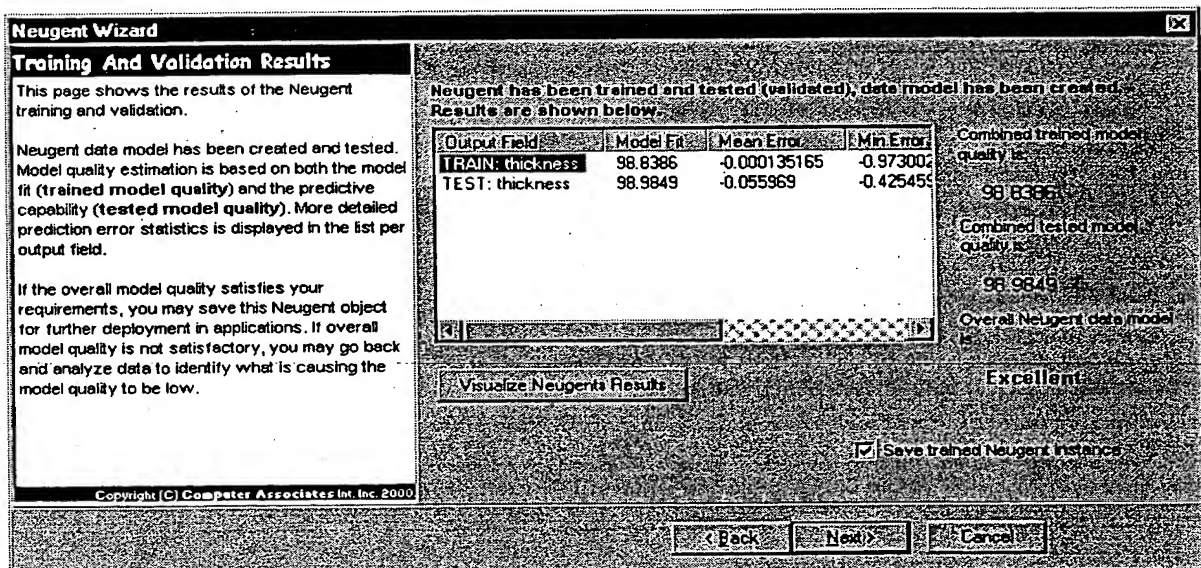


FIG. 12

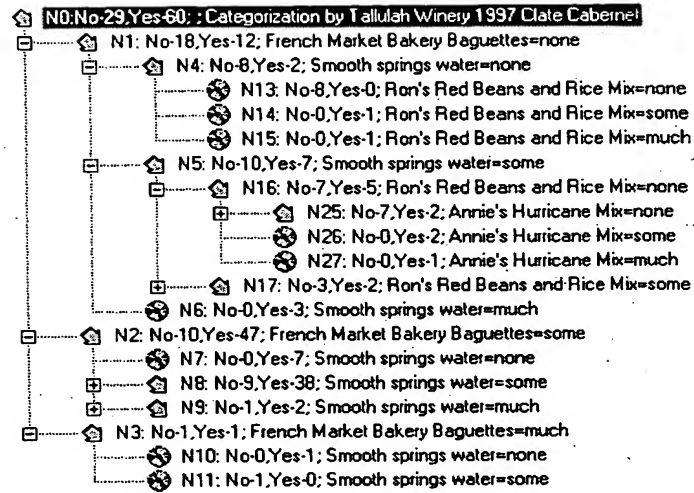


FIG. 13

Wine Example

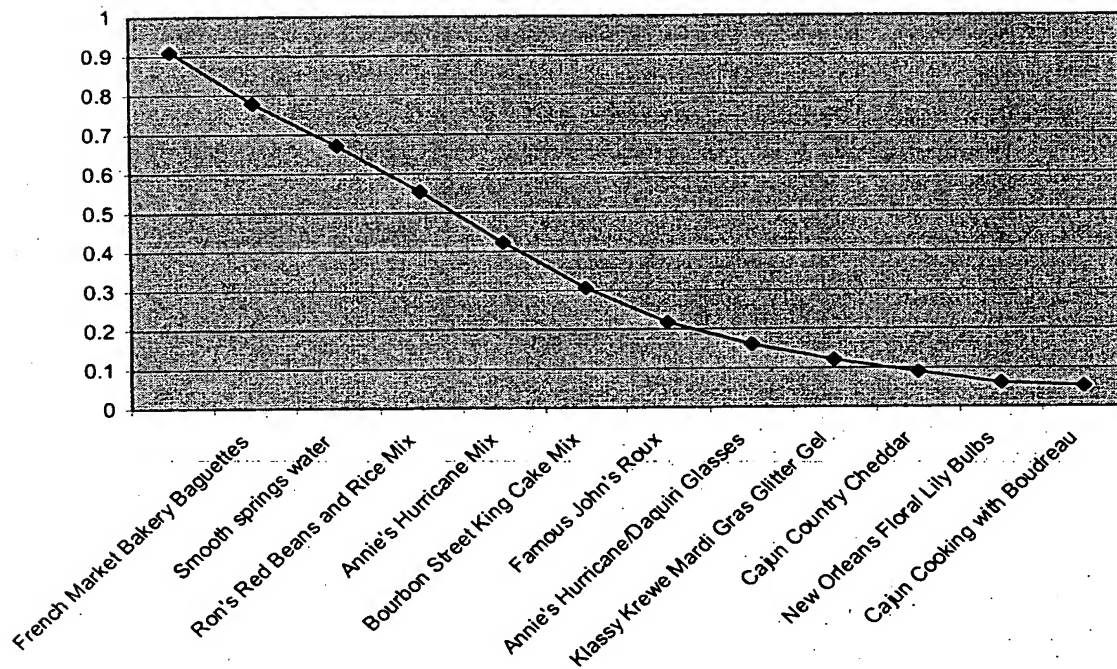


FIG 14

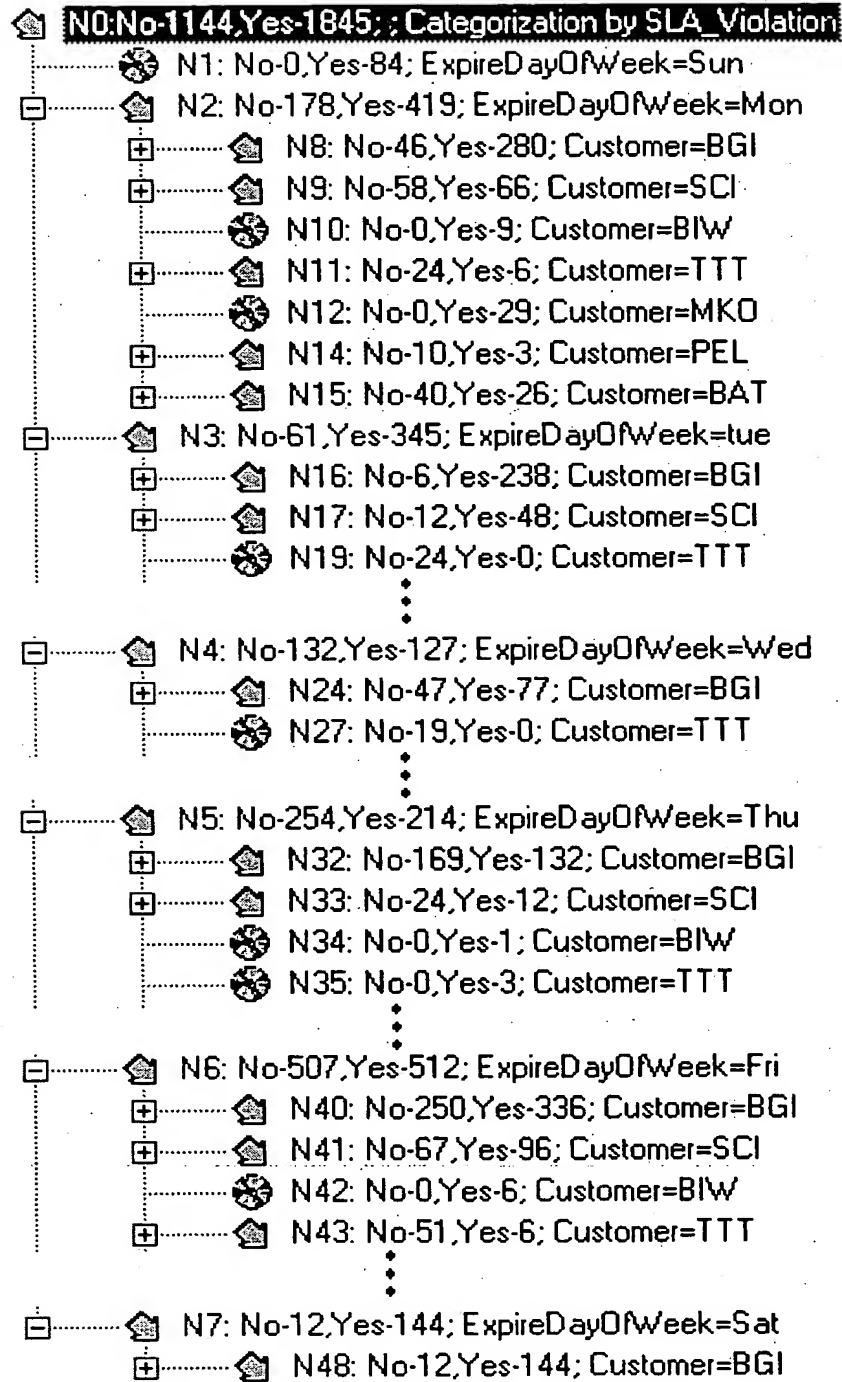


FIG. 15

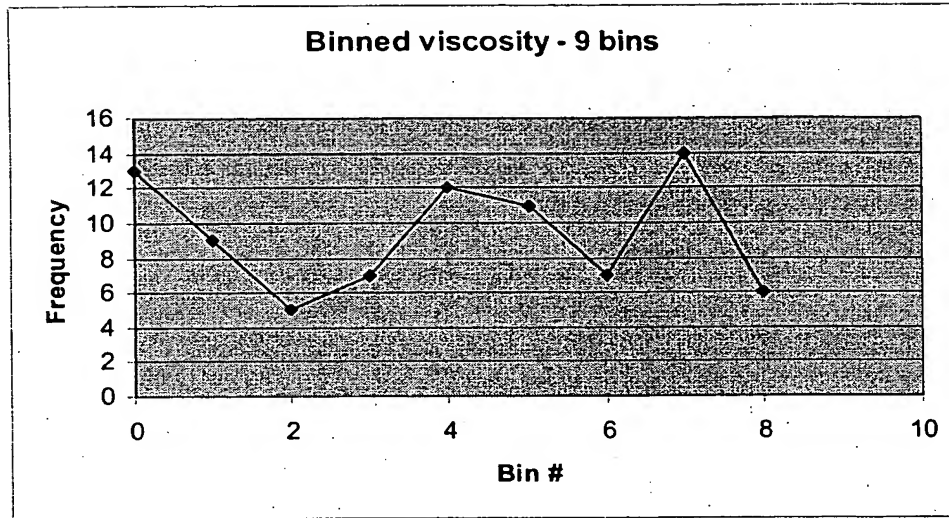


FIG. 16

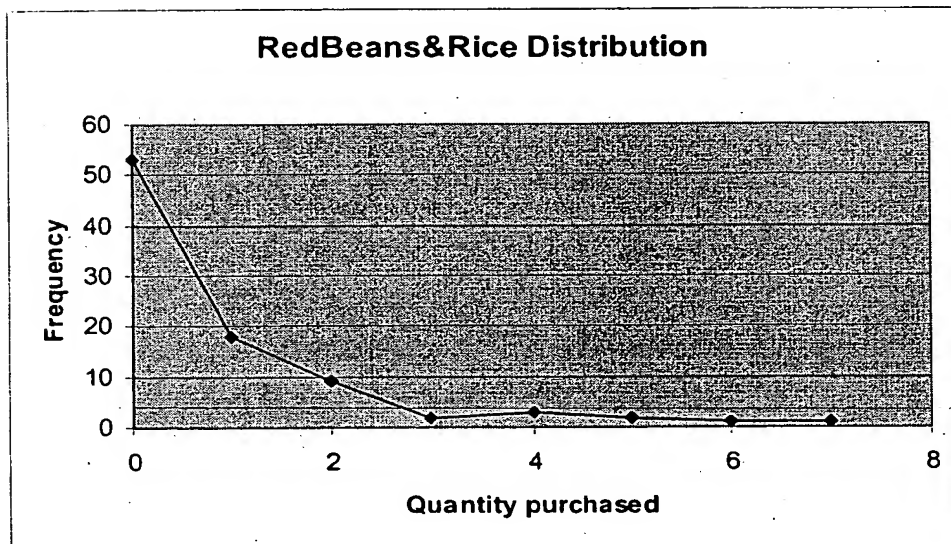


FIG. 17

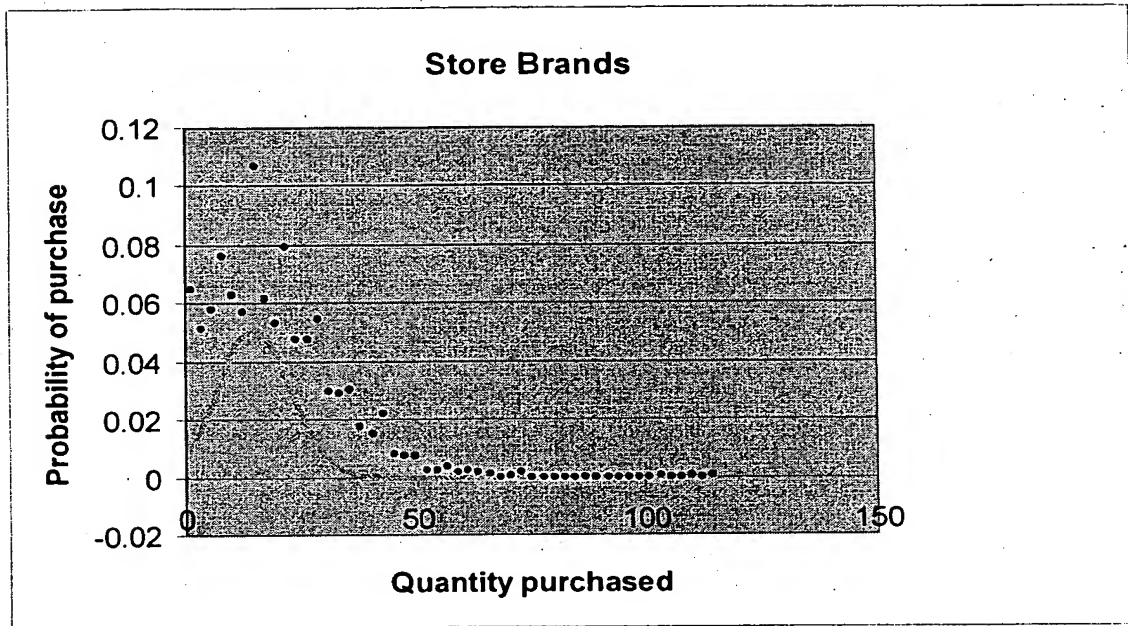


FIG. 18

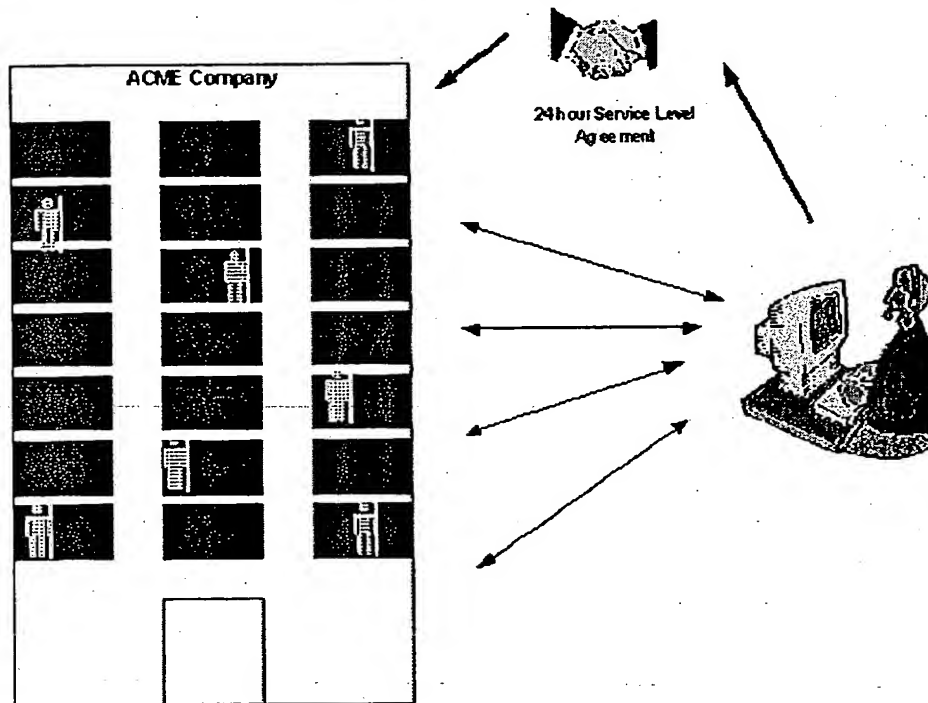


FIG. 19

Problem Codes influencing SLAs

Last Week

1	Network
2	PC
3	Mainframe
4	Password
5	Word Processing
6	Spreadsheet
7	Dial-up
8	Hardware
9	Email
10	Software Upgrade



This Week

1	PC
2	Network
3	Printer
4	Software Upgrade
5	Password
6	Dial-up
7	Spreadsheet
8	Hardware
9	Email
10	Word Processing

FIG. 20

NeugentAHD Configuration

File Tools

AHD Neugent instance:

General Features Training CATree

Neugent Name:

Model Load: Model Lag:

Minimum accuracy (%): Use Historian: ☒

Missing lag action: Run Historical Data: ☐

Pattern Purge

Time:

Conditions

Check interval (secs.):

Sample interval (secs.):

Sample reference time:

Sample tolerance (secs.):

Evaluate interval (secs.):

Evaluate reference time:

Evaluate tolerance (secs.):

Save interval (secs.):

Save reference time:

Save tolerance (secs.):




FIG. 21

NeugentsAHD Configuration

File Tools

AHD Neugent instance:

General **Features** **Timing** **CATree**

Feature Specification:

Namespace: ☐ Outputs only

Feature names:

SQL Statement:

Stored procedure: ☐

Stored procedure name:

Stored Procedure result:

Stored Procedure script:

Stored Procedure parameters:

Param	Value

Is lookup: ☐

Local key:

FeatureSpec doing lookup:

Foreign key:

Pre-processing specifications:

Feature	Method	New Feature	Parameters

FIG. 22

NeugentsAHD Configuration

File Tools

AHD Neugent instance:

General Features Training CA Tree

Pattern label:

Group Key:

Model inputs

Feature	Lag
temperature	12
rainfall	12
isnorthcoastdrainage	0
iscentralcoastdrainage	0
issanjoachindrainage	0

Training pattern conditions

$\$time_stamp\$ \leq \$system_time\$ - (26 * \$pattern_intervals\$)$

Evaluation pattern conditions: string

$\$TIME_STAMP\$ > \$SYSTEM_TIME\$ - (26 * \$PATTERN_INTERVAL\$)$

Model Outputs

Feature	Lead	MinAcc	Threshold	Low Limit	Hi Limit
temperature	3	90		-40	140
rainfall	3	70		0	50

Event conditions

Field	Operator	Value
temperature	GT	70
rainfall	LE	0

FIG. 23

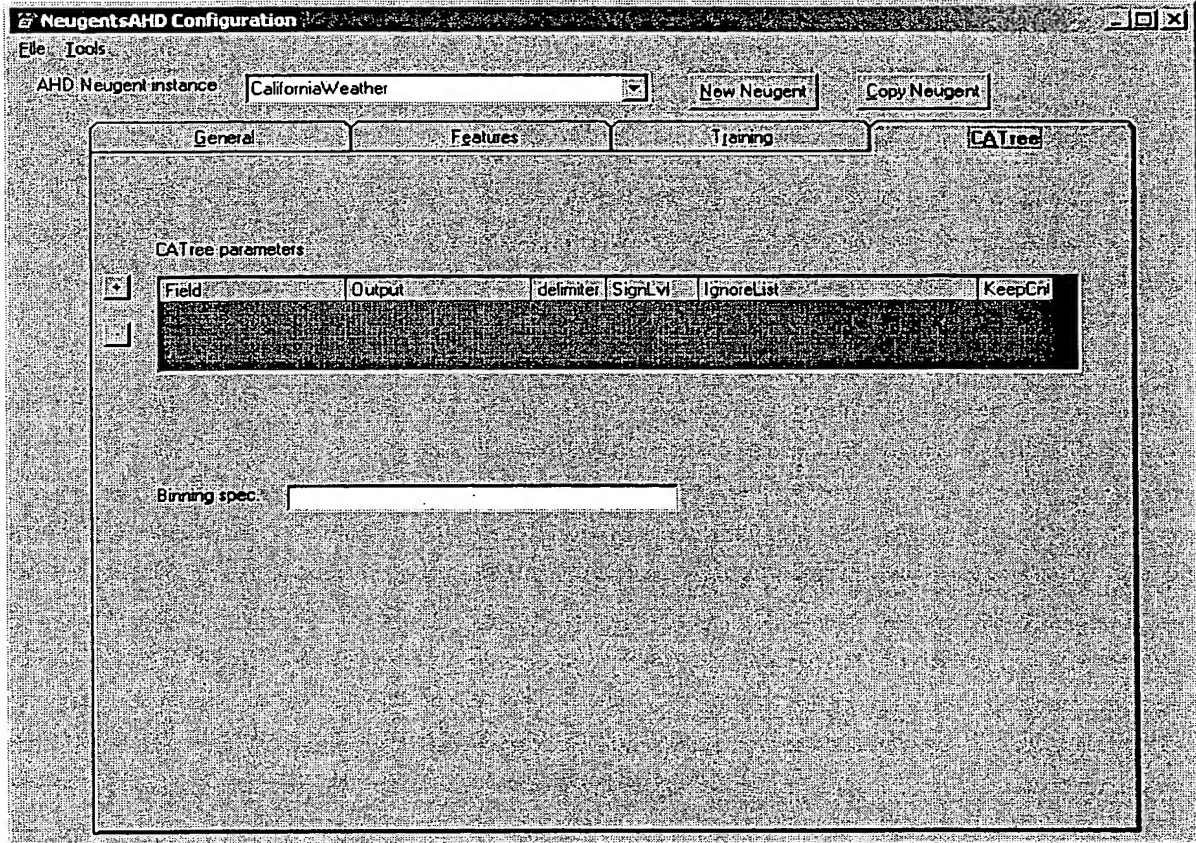


FIG. 24

The image shows a screenshot of a Windows-style dialog box titled "AHD Connection Information". The dialog box has a standard title bar with minimize, maximize, and close buttons. It contains several text input fields and two buttons. The fields are labeled as follows: "AHD Server Name" (empty), "AHD Server Address" (empty), "AHD Neugent Account" (containing "neugentsahd"), "AHD Neugent Password" (containing "*****"), "AHDLocalStore" (containing "NAHD_LOCAL_STORE/neugentsa"), "Local Store Filename" (containing "NeugMO.lst"), "Local Store Directory" (containing "d:\\neugahd"), and "Historian Data Source" (containing "ahd_local_store.mdb"). To the right of the input fields are two buttons: "Done" and "Cancel".

Field Label	Value
AHD Server Name	
AHD Server Address	
AHD Neugent Account	neugentsahd
AHD Neugent Password	*****
AHDLocalStore	NAHD_LOCAL_STORE/neugentsa
Local Store Filename	NeugMO.lst
Local Store Directory	d:\\neugahd
Historian Data Source	ahd_local_store.mdb

FIG. 25

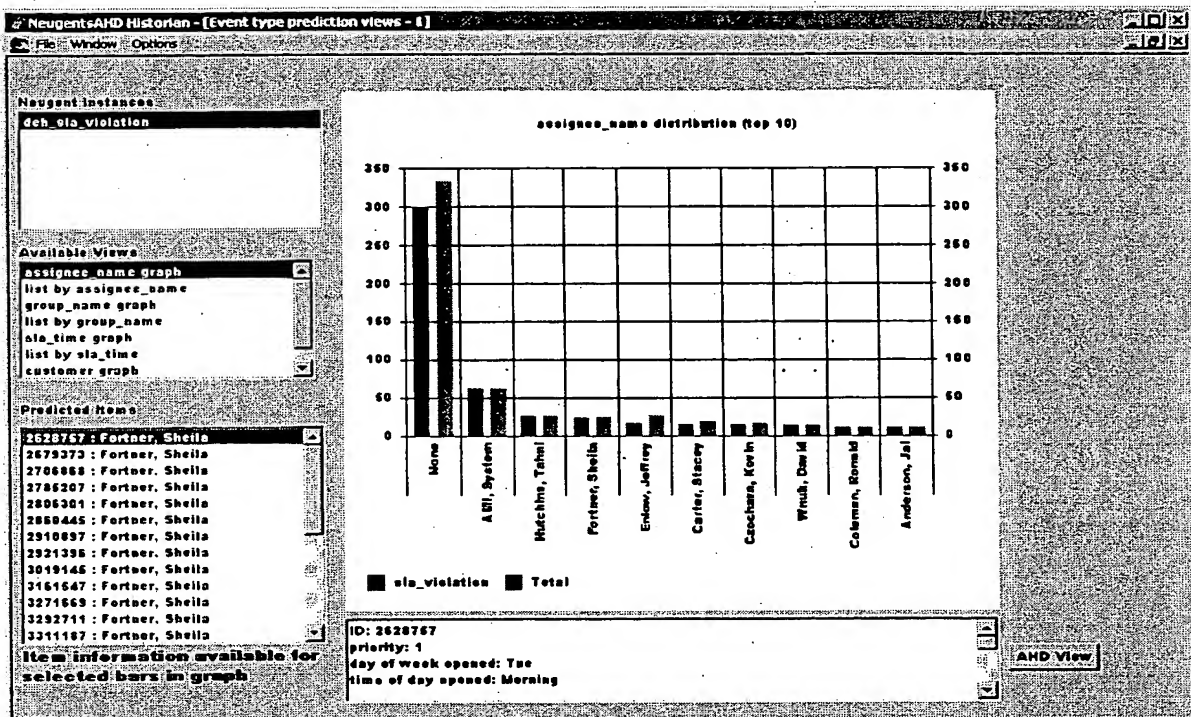


FIG. 26

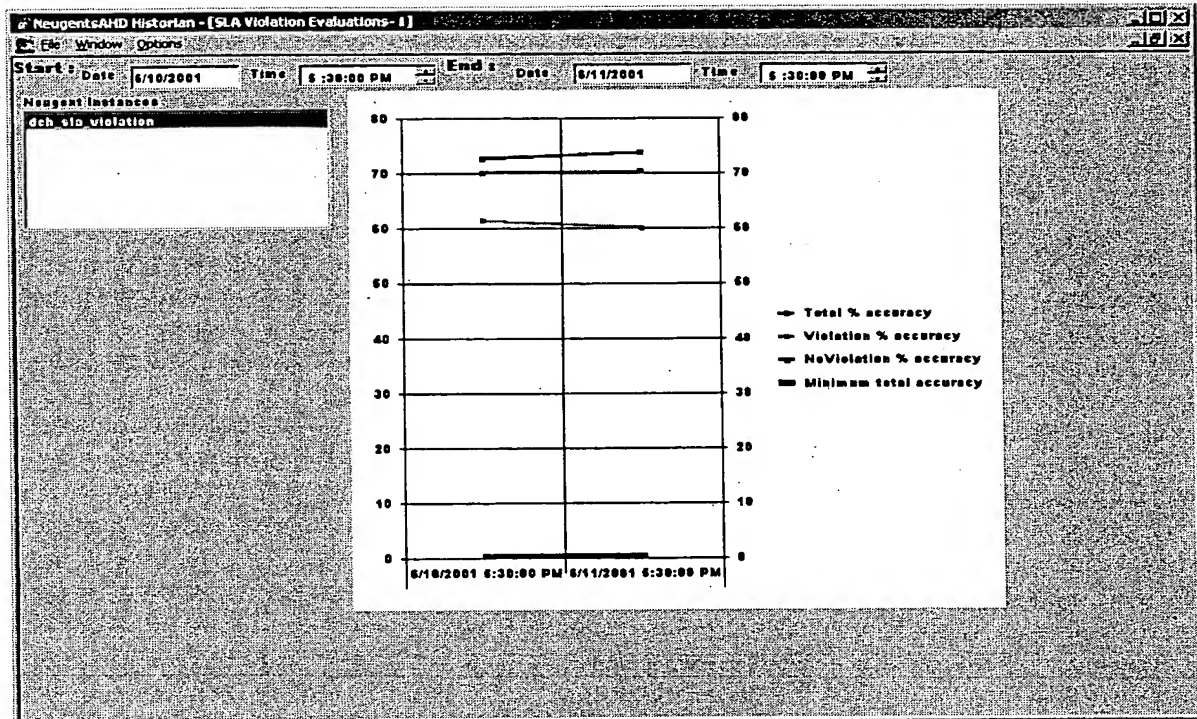


FIG. 27

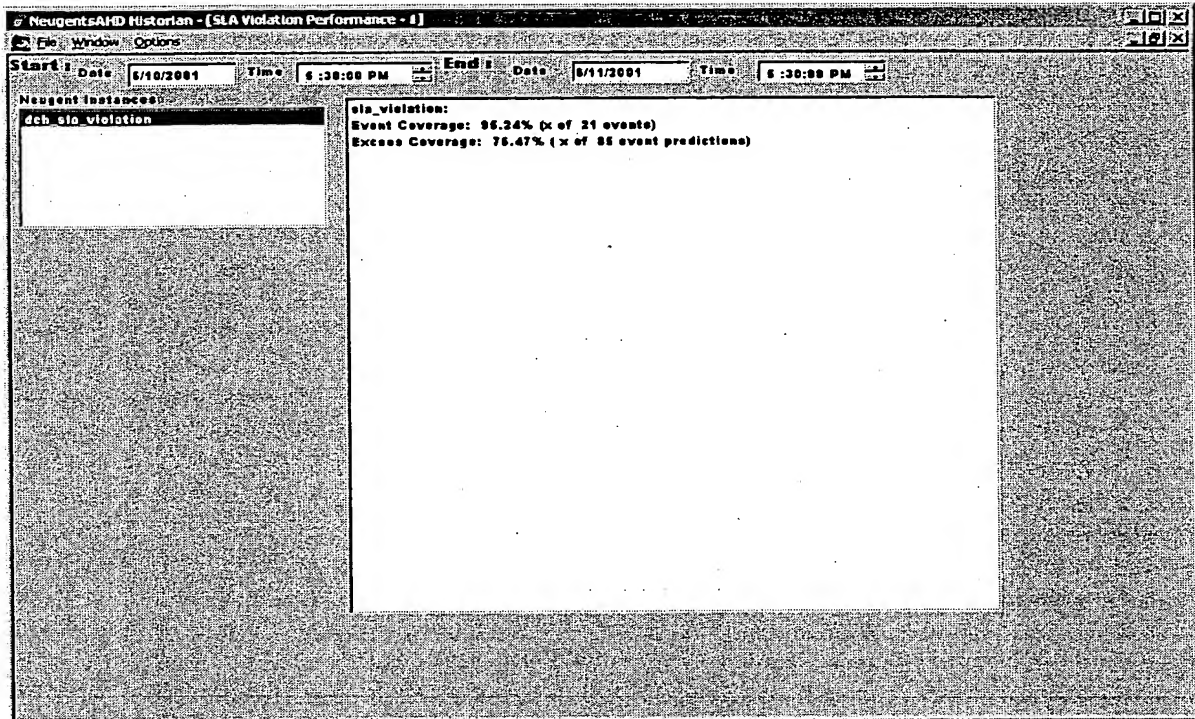


FIG. 28

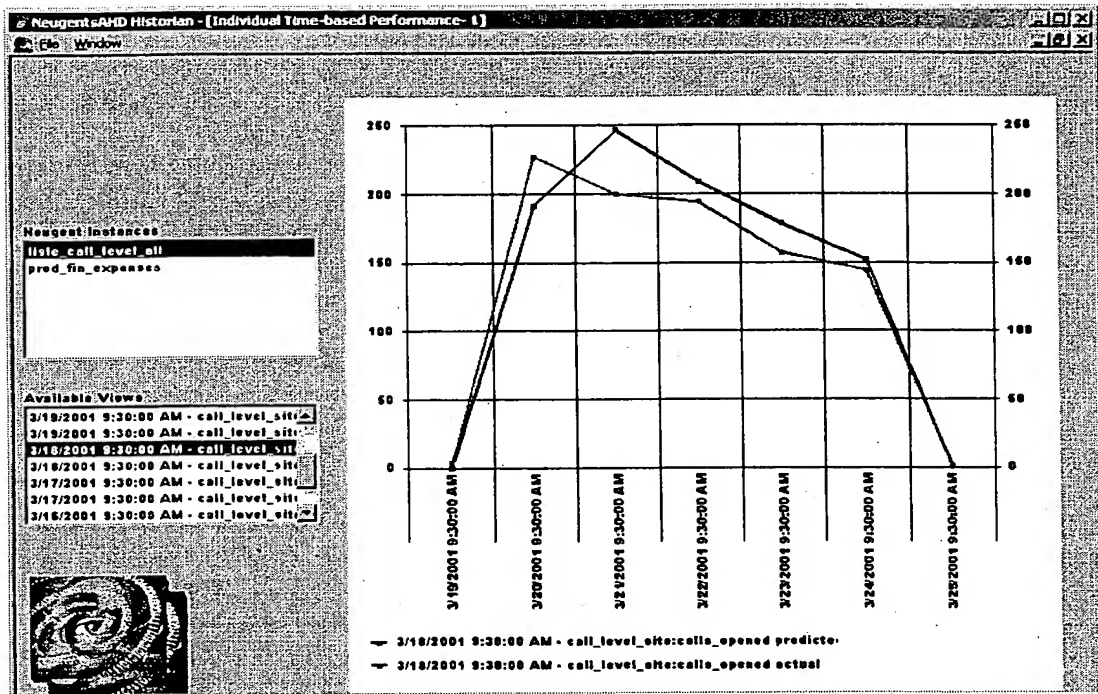


FIG. 29

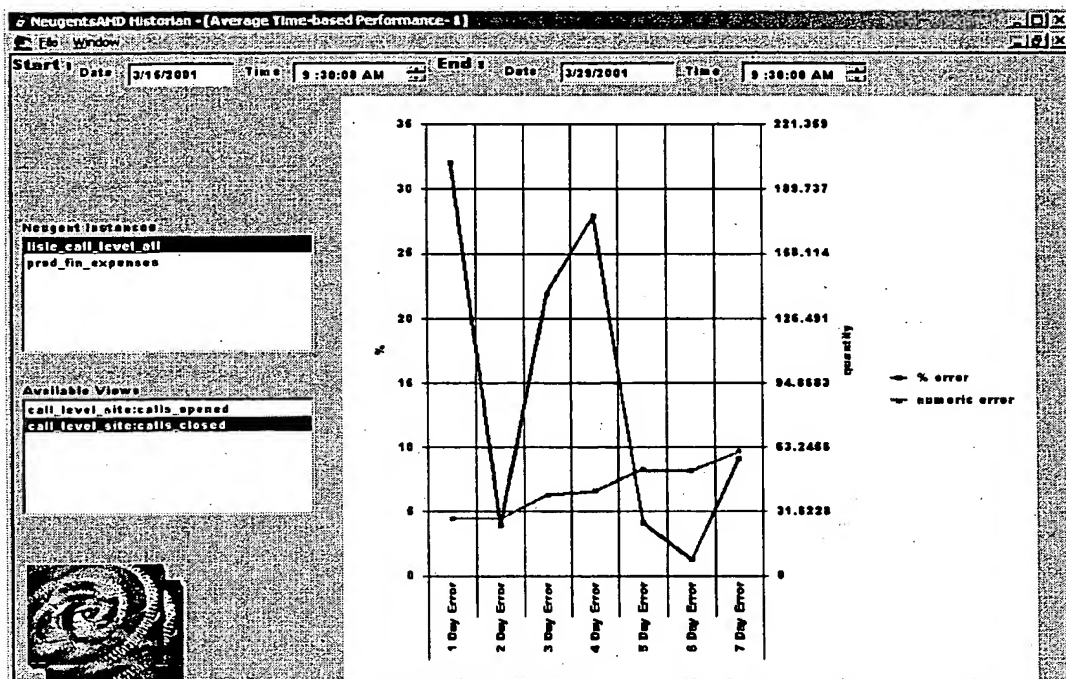
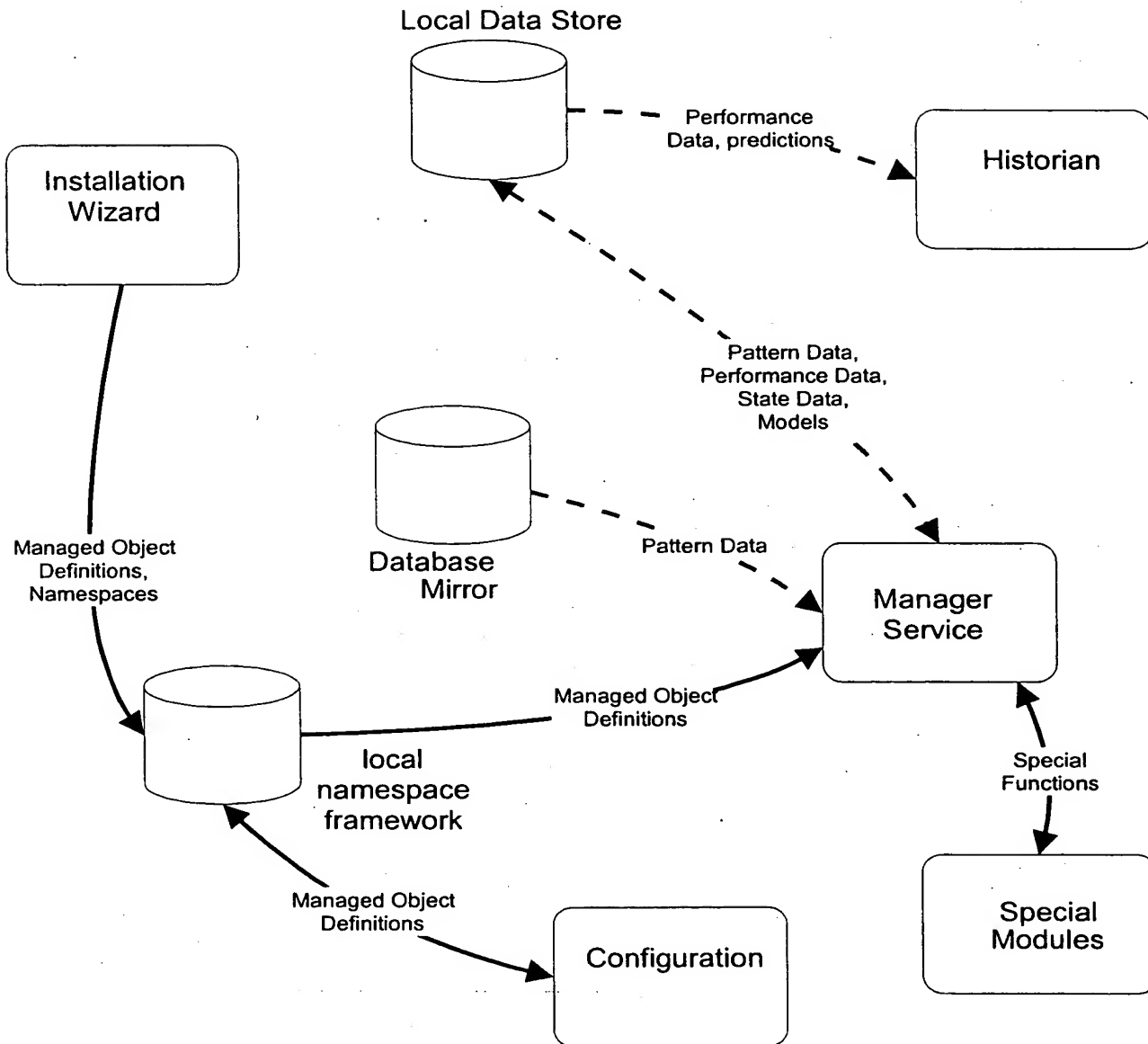


FIG 30



---> Although all data connections will actually be through the local Jasmine Framework, the dotted line indicates the abstract path to the data

FIG. 31

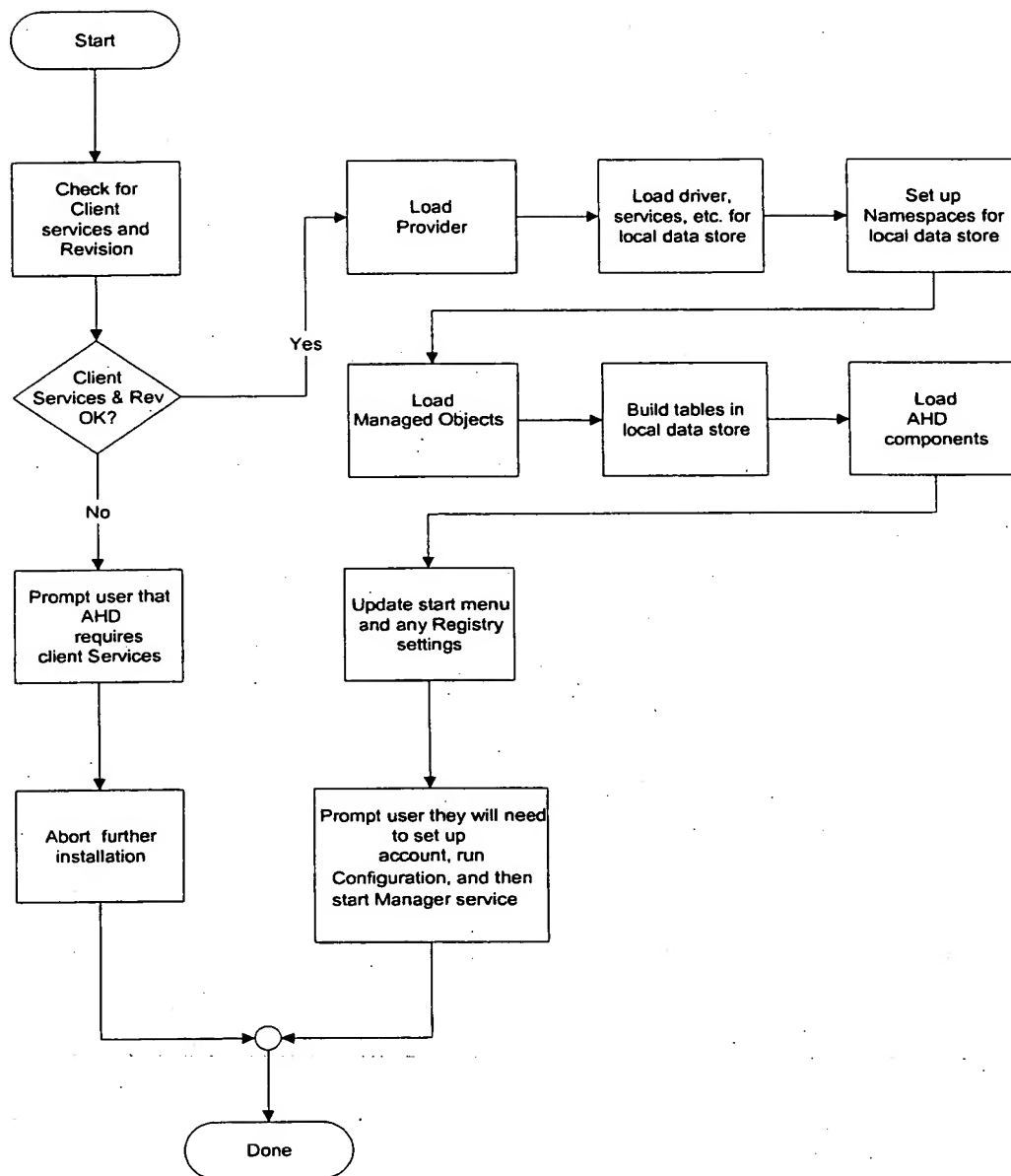


FIG. 32

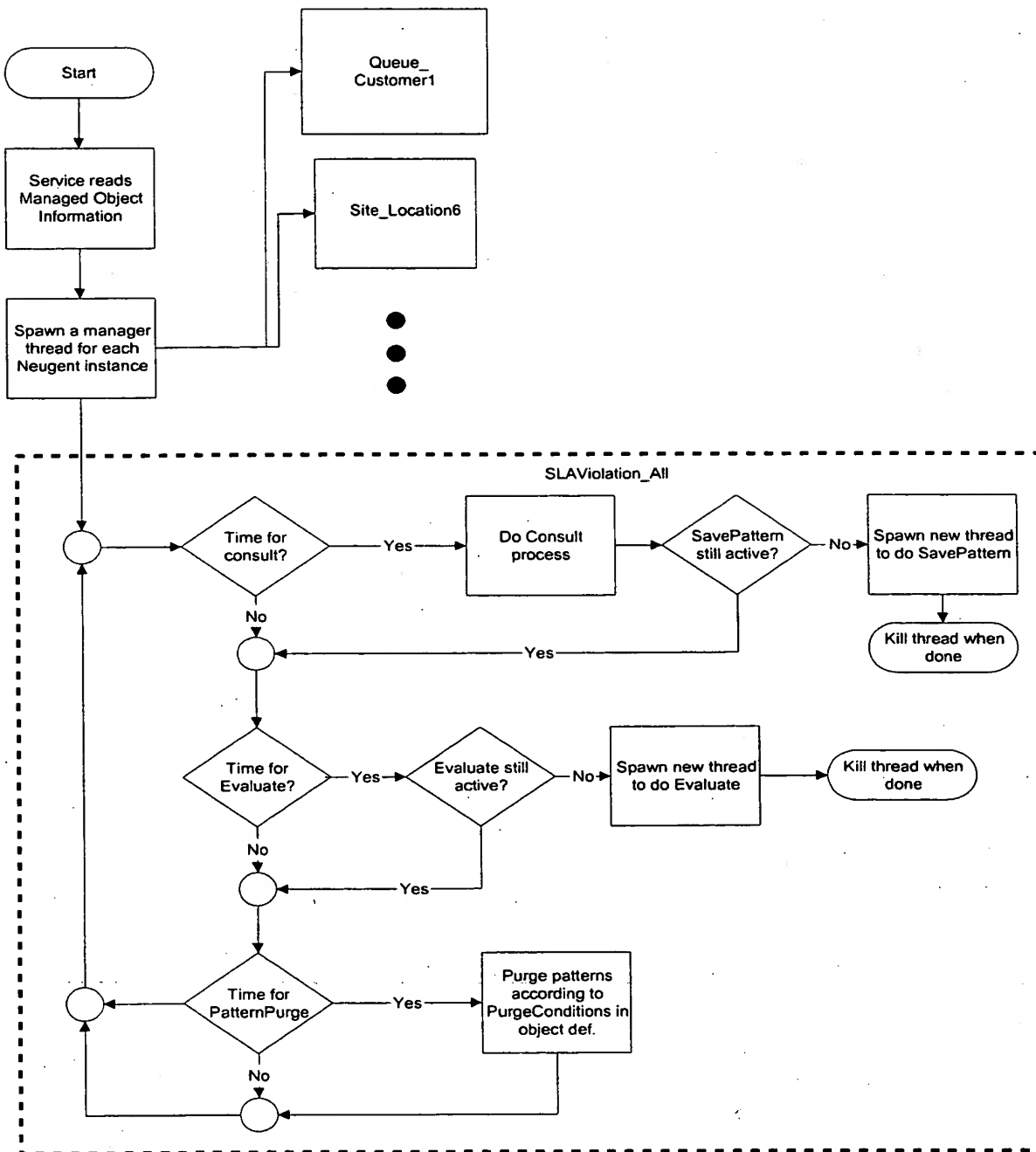


FIG. 33

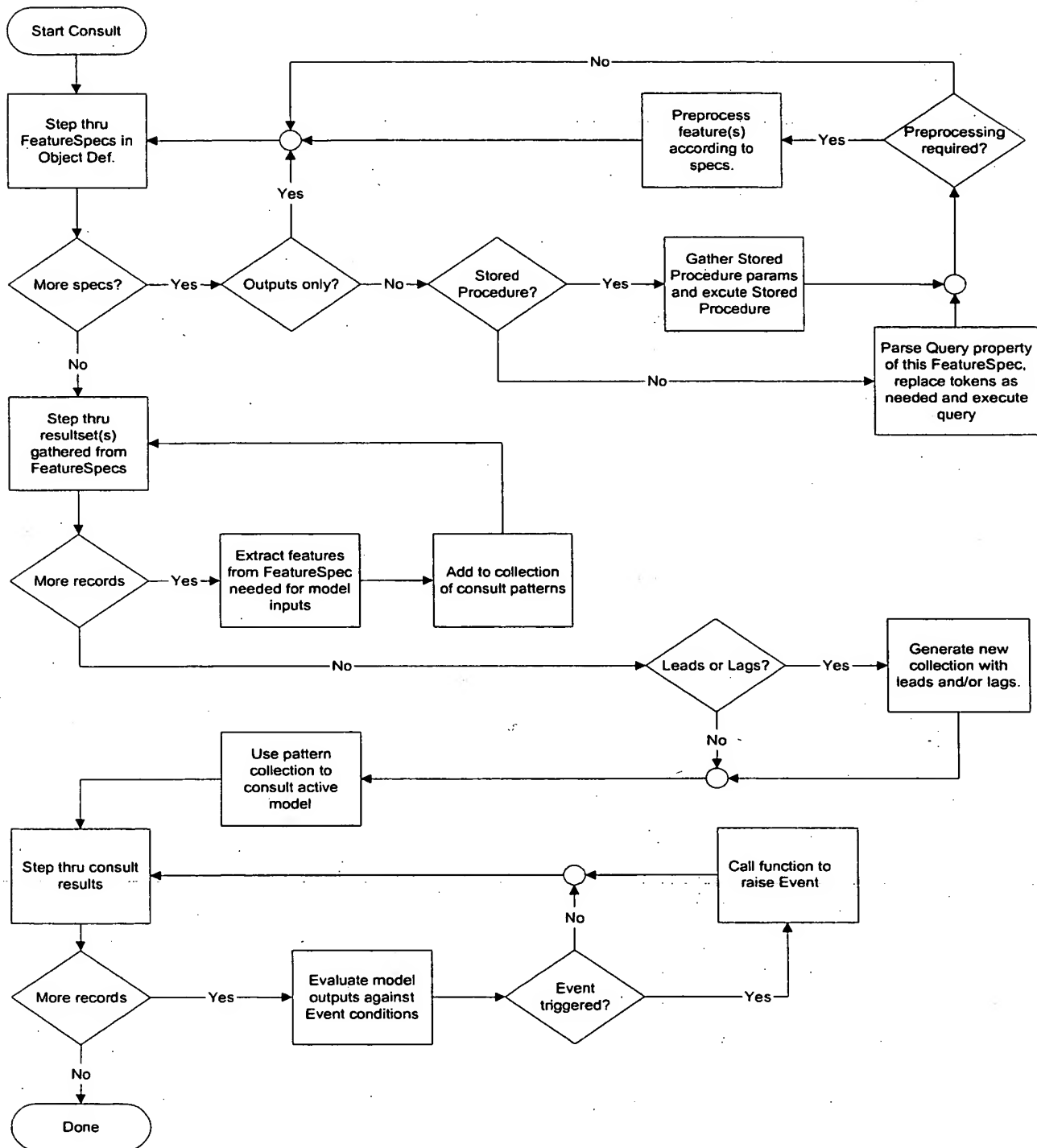


FIG. 34

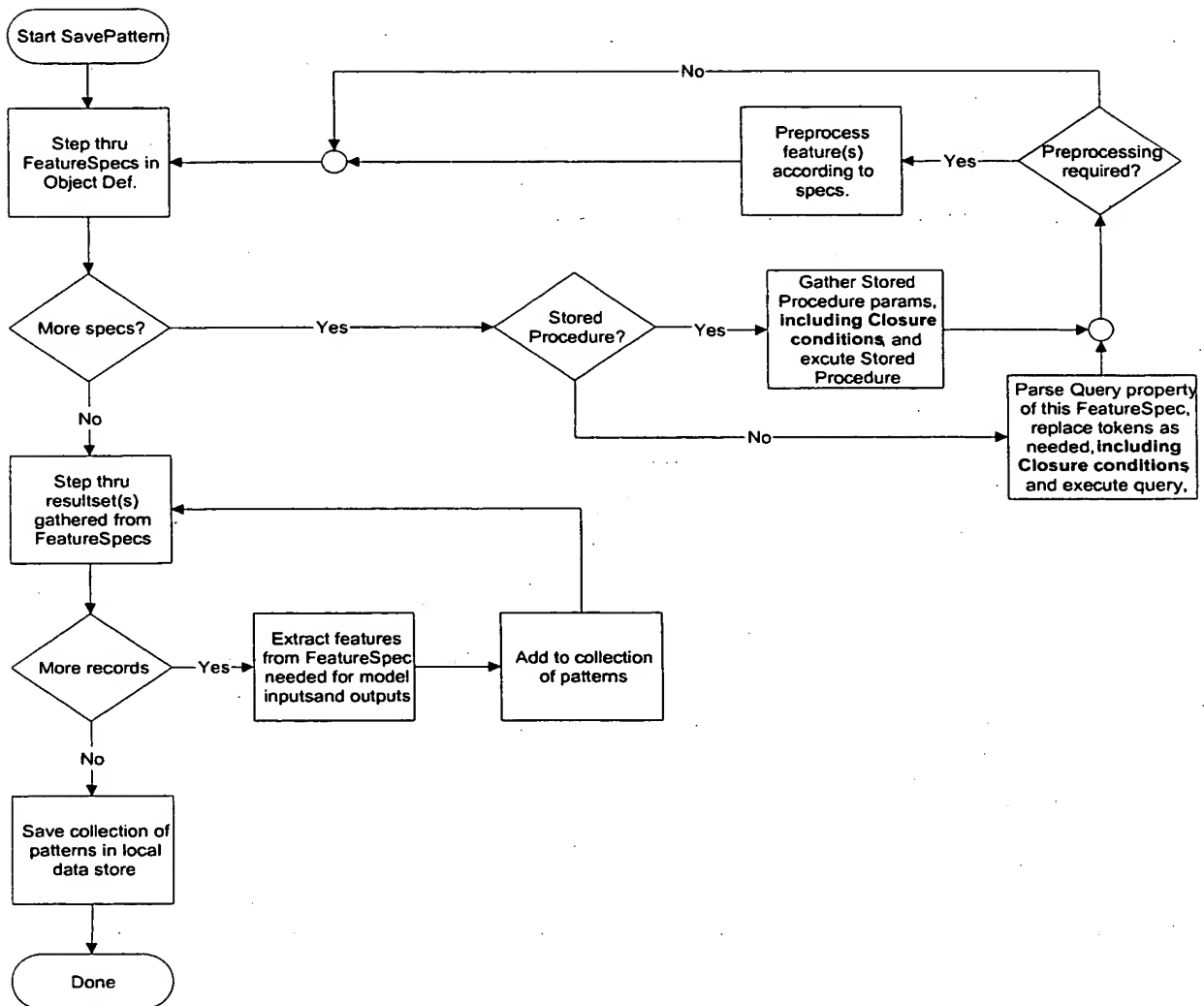


FIG. 35

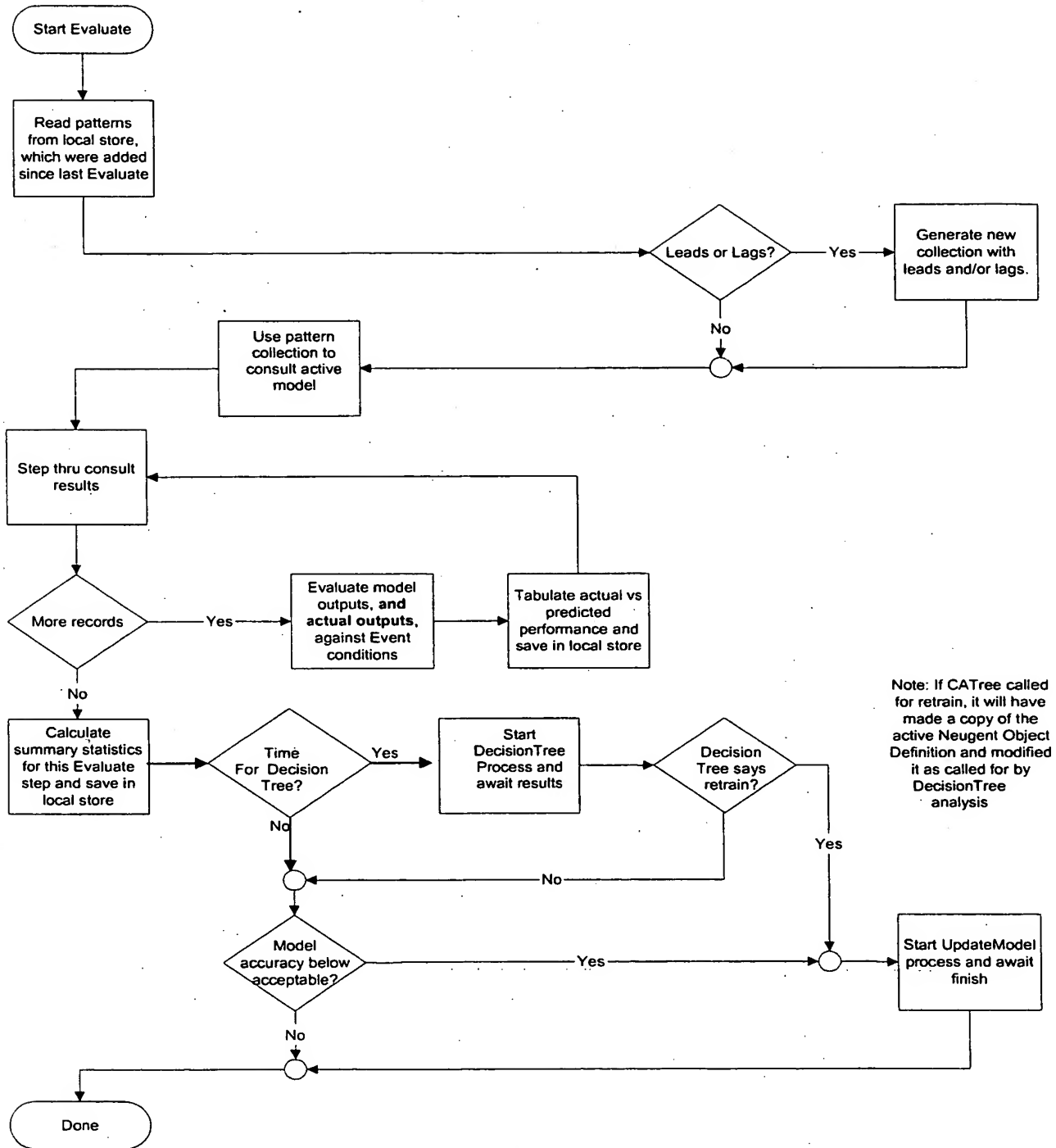


FIG. 36

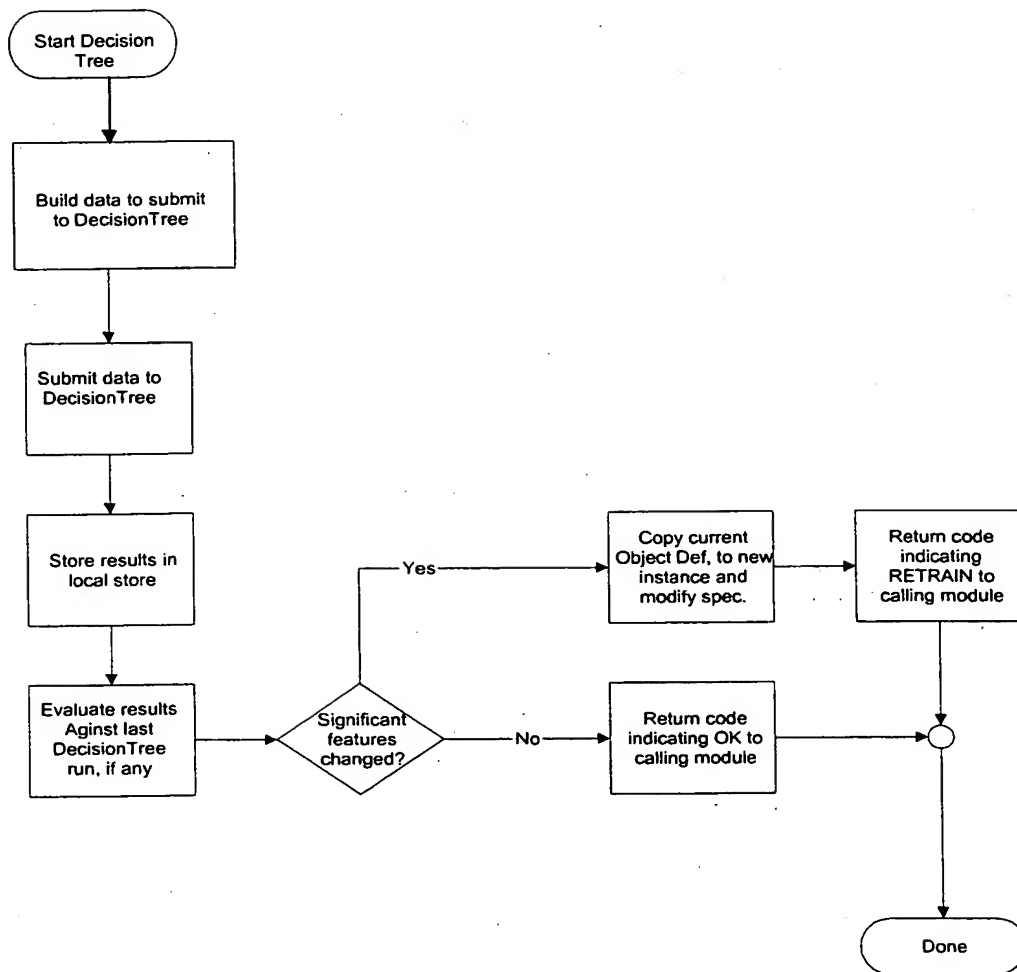


FIG. 37

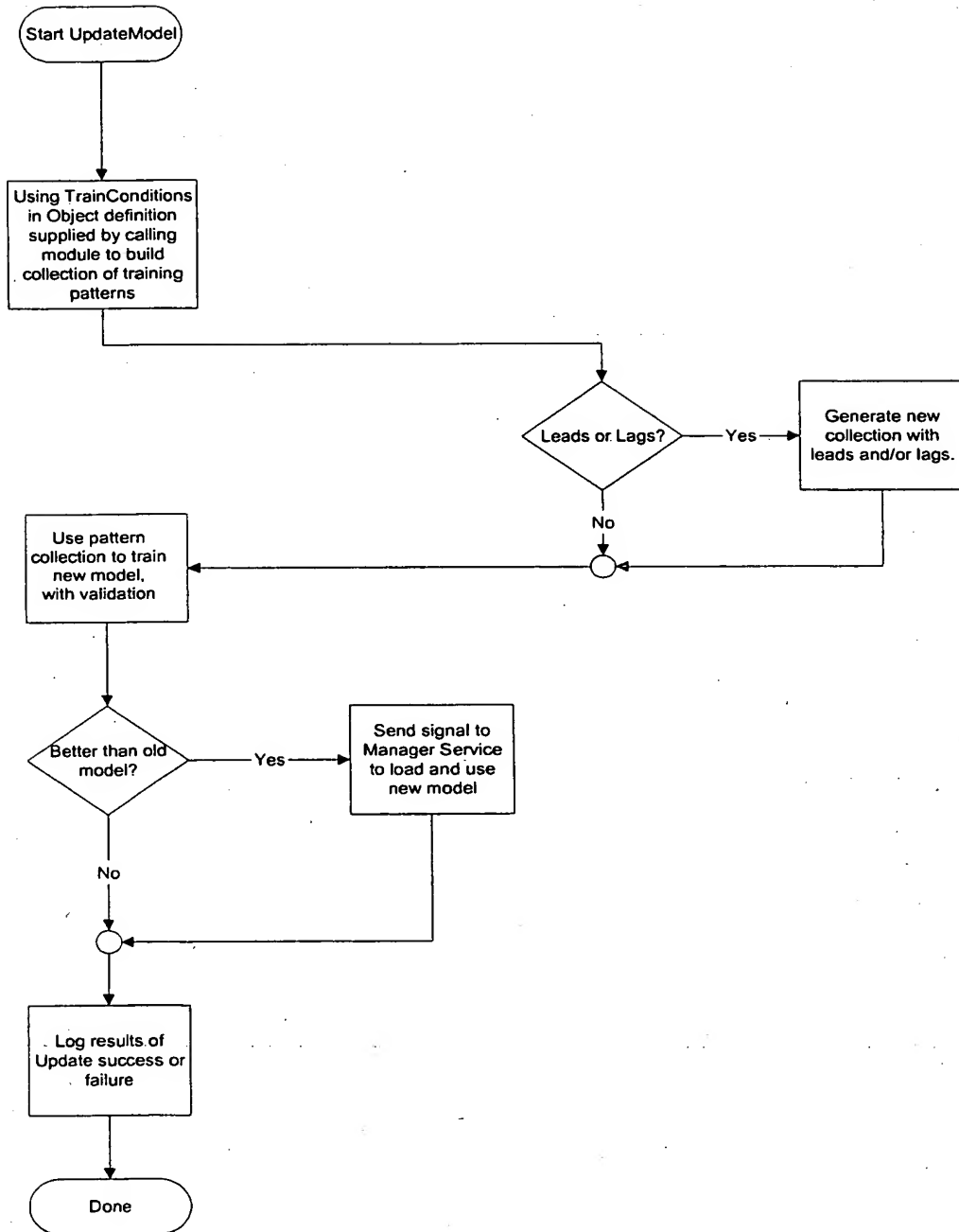


FIG. 38

